

# *Project Baseline Summary Report*

Data Source: **EM CDB**

Operations/Field Office: **Ohio**

Site Summary Level: **West Valley Demonstration Project**

Project **OH-WV-03 / Spent Nuclear Fuel**

Report Number: **GEN-01b**

Print Date: **3/9/2000**

HQ ID: **0251**

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## **General Project Information**

### **Project Description Narratives**

#### **Purpose, Scope, and Technical Approach:**

##### **PURPOSE:**

The West Valley Spent Nuclear Fuel Program is to ship the West Valley Spent Nuclear Fuel owned by the Department of Energy (DOE) to the Idaho National Engineering and Environmental Laboratory (INEEL) in accordance and compliance with the following:

- (1) The DOE/ New York State Energy Research and Development Authority (NYSERDA) Cooperative Agreement on West Valley Spent Nuclear Fuel signed November, 1986;
- (2) The National Spent Nuclear Fuel Program and;
- (3) The DOE/Navy/State of Idaho Consent Order, Civil No. 91-0035-8 -EJL, 10/17/95.

The National Spent Nuclear Fuel Program schedule identifies that the West Valley Spent Nuclear Fuel should be shipped to INEEL during the six month window of opportunity scheduled between April 2, 2001 and September 14, 2001.

##### **SCOPE:**

The West Valley Spent Nuclear Fuel program in FY 2001 focuses on activities required for Spent Fuel shipment including the preparation of the rail cars for shipment of the spent fuel assemblies. An operational readiness review (ORR) board will be convened to determine readiness of the transport activities. Upon approval from DOE-OH to commence activities, INEEL should declare transportation and operational readiness to receive West Valley Spent Nuclear Fuel. Shipping activities will then begin with two shipments expected to occur during April 2001 and September 2001.

##### **TECHNICAL APPROACH:**

The 125 spent nuclear fuel (SNF) assemblies will be sent to INEEL in two shipments, with each shipment consisting of two casks. For each shipment the strategy is that half of the forty assemblies from the Robert E. Ginna (REG) nuclear power station will be shipped in the Transnuclear (TN) REG cask and half of the 85 assemblies from the Big Rock Point (BRP) nuclear power station will be shipped in the TN-BRP cask. The TN-REG and TN-BRP casks were specifically designed for the West Valley SNF shipment.

After loading the SNF into the casks in the Fuel Receiving and Storage Facility (FRS), the casks will be placed on railcars. Then casks will then be transported by train to INEEL. Once at INEEL, the cask will be moved via heavy haul equipment to Test Area North (TAN). The casks will be unloaded at TAN, and return to West Valley for the second half of the shipment. Following the second shipment, the fuel from the first shipment will be placed back into the casks, and the casks placed on a pad for interim storage.

#### **Project Status in FY 2006:**

The FY2006 status as a result of the performance of scopes planned in PBS-OH-WV-03 is the completion of shipment of the 125 spent fuel assemblies to INEEL (scheduled for FY2001), and the subsequent deactivation and initial decontamination of the West Valley Fuel Receiving and Storage (FRS) Area by the end of FY2005. PBS OH-WV-03 will be closed out at the end of FY2005. Final decontamination and decommissioning of the spent nuclear fuel facilities will be determined by the Final Environmental Impact Statement / Record of Decision (FEIS/ROD) scheduled for

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## **Project Description Narratives**

publication in FY2000. The work scope to D&D the spent nuclear storage facilities to final NRC criteria will be performed, if required, in PBS OH-WV-02; Site Transitioning, Decommissioning and Project Completion.

### **Post-2006 Project Scope:**

After shipment of the spent fuel assemblies to INEEL scheduled for FY2001, and subsequent deactivation and initial decontamination of the Fuel Receiving and Storage Area, the West Valley Spent Nuclear Fuel program will be completed. PBS OH-WV-03 will be closed out at the end of FY2005. Final decontamination and decommissioning of the spent nuclear fuel facilities will be determined by the Final Environmental Impact Statement/Record of Decision (FEIS/ROD) scheduled for publication in FY2000. The work scope to D&D the spent nuclear storage facilities to final NRC criteria will be performed, if required, in PBS OH-WV-02; Site Transitioning, Decommissioning and Project Completion.

### **Project End State**

The end state conditions as a result of the performance of scopes planned in PBS OH-WV-03 is the completion of shipment of the 125 spent fuel assemblies to INEEL (scheduled for FY2001), and the subsequent deactivation and initial decontamination of the West Valley Fuel Receiving Area by the end of FY2005. PBS OH-WV-03 will be closed out at the end of FY2005. Final decontamination and decommissioning of the spent nuclear fuel facilities will be determined by the Final Environmental Impact Statement / Record of Decision (FEIS/ROD) scheduled for publication in FY2000. The work scope to D&D the spent nuclear storage facilities to final NRC criteria will be performed, if required, in PBS OH-WV-02; Site Transitioning, Decommissioning and Project Completion.

### **Cost Baseline Comments:**

WV has a high level of confidence in the projected storage and shipment costs because of previous project activities, (shipping 625 Fuel Assemblies back to utilities which owned them and current storage of the remaining 125 assemblies).

The source of the cost baseline data for the WVDP Fuel Program are:

- (1) DOE-WV letter to WVNS dated January 30, 1997, "Ten-Year Plan and Fiscal Year (FY) 1999 Budget Guidance;
- (2) The funding levels for SNF by fiscal year are based on the Program Management Plan (WD:94:0539) for the NFS Shipping/Storage Cask Demonstration Program and INEL Letter (MJT-22-95) to DOE-WV, "Transmittal of Cost and Schedule for INEL Activities in Support of the NFS Project" (ZW:95:0044); as revised to reflect shipment of the West Valley SNF in 2001 per the DOE Programmatic SNF Management EIS ROD, as modified February 28, 1996 to reflect the October 16, 1995 Settlement Agreement between DOE, the State of Idaho, and The Department of Navy;
- (3) Activity Data Sheets and ;
- (4) Risk Data Sheets.

### **Safety & Health Hazards:**

The 125 DOE-owned spent fuel assemblies are in wet storage at the WVDP site. The fuel storage pool at the WVDP is thirty years old and does not meet current DOE general design criteria. Specifically, the pool is single walled, concrete construction, unlined, and lacks the capability for leak detection and control. This presents the potential for undetected releases to the environment. Contamination is present in both sludges and pool water, and extensive releases to the environment would have catastrophic results since the pool is situated in a high water table within close proximity to Cattaraugus Creek, which flows through the Seneca Nation of Indians Tribal Lands to Lake Erie, centered in the densely populated Northeastern

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## **Project Description Narratives**

portion of the United States and Canada.

Monitoring and maintenance of the fuel pool and associated facilities is continuing. The pool will however continue to degrade, increasing the probability of failure. Potential cracking of the pool wall could result in the release of contaminated sludge and water to the soil and groundwater as well as high radiation readings emanating from unshielded fuel assemblies. While conducting the spent nuclear fuel handling activities for the shipping program, an estimated occupational exposure level of 5 rem exists while performing fuel modifications ; 5.5 rem while training the fuel shipping crews; and 9.5 rem while carrying out the fuel shipping campaigns, all of which will increase the risk to the site worker. While there are active hazard abatement programs, there will continue to be exposure to radioactive materials, loose contamination, and hazardous situations in a facility of this age and design.

### **Safety & Health Work Performance:**

The West Valley Spent Nuclear Fuel Program is on schedule and coordinated with INEEL to ship the WVSNF in FY2001 to INEEL in accordance with the the DOE/NYSERDA Cooperative Agreement on West Valley Spent Nuclear Fuel signed November, 1986; National Spent Nuclear Fuel Program; and in compliance with the DOE/Navy/State of Idaho Consent Order, Civil No. 91-0035-8 -EJL, 10/17/95. The spent fuel program has not experienced a significant cost or schedule variance. Activities are progressing as planned and as long as funding is provided to adequately support its efforts, the spent nuclear fuel project will be completed through facility deactivation and initial decommissioning by the end of FY2005.

### **PBS Comments:**

The Spent Nuclear Program is not a part of the scope of WVDP Act. EM-60 is to provide funding for FY1998 through FY2001 in support of the shipment of SNF to INEEL. Funding for FY1998 through FY2001 would cover both WVDP efforts associated with loading the SNF into casks at West Valley and INEEL efforts associated with transportation of the SNF to INEEL and unloading the casks at INEEL. EM-60 is to provide funding in FY2002 through FY2005 to support the decontamination and decommissioning of the Fuel Receiving and Storage Area at WV (drain fuel pool, decontaminate filters, pits and equipment, etc.).

### **Baseline Validation Narrative:**

Validation of FY1998 through FY2000 budget data was conducted by a team of individuals from EM-30, FM-20 and the Ohio Field Office. This team compared the scopes of the work to the respective budgets defined in the Cost Account Planning Reports (CAPRs) and found the estimates to be reasonable. The Validation was performed for each of the four Project Baseline Summary's and rolled up to encompass the WVDP work scope and costs as delineated by the WVDP (Act Public Law 96-368), as well as the West Valley Spent Nuclear Fuel Program (PBS-OH-WV-03: Spent Nuclear Fuel.)

WVDP will request a validation of the FY2001 and near-term out-year budgets during FY1999. At that time it is expected that the work scope and respective budgets in the out-years will be generated to support Project Completion activities to the extent possible based upon funding guidance and work scope activities currently being executed independent of the ROD/FEIS and required per the scope delineated in the WVDP Act (Public Law 96-368).

## **General PBS Information**

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## General PBS Information

Project Validated? Yes Date Validated: 10/29/1998

Has Headquarters reviewed and approved project? Yes

Date Project was Added: 12/1/1997

Baseline Submission Date: 7/8/1999

FEDPLAN Project? Yes

| Drivers: | CERCLA | RCRA | DNFSB | AEA | UMTRCA | State | DOE Orders | Other |
|----------|--------|------|-------|-----|--------|-------|------------|-------|
|          | N      | Y    | N     | Y   | N      | Y     | Y          | Y     |

## Project Identification Information

DOE Project Manager: Herman R. Moore

DOE Project Manager Phone Number: 716-942-4814

DOE Project Manager Fax Number: 716-942-4703

DOE Project Manager e-mail address: hmoore@wv.doe.gov

Is this a High Visibility Project (Y/N):

## Planning Section

### Baseline Costs (in thousands of dollars)

|  | 1997-2006<br>Total | 2007-2070<br>Total | 1997-2070<br>Total | 1997  | Actual<br>1997 | 1998  | Actual<br>1998 | 1999  | 2000  | 2001  | 2002  | 2003  | 2004 | 2005 | 2006 |
|--|--------------------|--------------------|--------------------|-------|----------------|-------|----------------|-------|-------|-------|-------|-------|------|------|------|
| PBS Baseline (current<br>year dollars)     | 21,429             | 0                  | 21,429             | 1,068 | 709            | 1,561 | 999            | 2,800 | 4,900 | 6,400 | 2,400 | 1,100 | 600  | 600  | 0    |
| PBS Baseline<br>(constant 1999<br>dollars) | 20,509             | 0                  | 20,509             | 1,068 | 709            | 1,561 | 999            | 2,800 | 4,771 | 6,068 | 2,216 | 989   | 525  | 511  | 0    |
| PBS EM Baseline<br>(current year dollars)  | 21,429             | 0                  | 21,429             | 1,068 | 709            | 1,561 | 999            | 2,800 | 4,900 | 6,400 | 2,400 | 1,100 | 600  | 600  | 0    |

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## Baseline Costs (in thousands of dollars)

|   | 1997-2006<br>Total | 2007-2070<br>Total | 1997-2070<br>Total | 1997  | Actual<br>1997 | 1998          | Actual<br>1998 | 1999          | 2000          | 2001          | 2002          | 2003          | 2004          | 2005          | 2006          |               |
|---|--------------------|--------------------|--------------------|-------|----------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| PBS EM Baseline<br>(constant 1999<br>dollars) | 20,509             | 0                  | 20,509             | 1,068 | 709            | 1,561         | 999            | 2,800         | 4,771         | 6,068         | 2,216         | 989           | 525           | 511           | 0             |               |
|   | 2007               | 2008               | 2009               | 2010  | 2011-<br>2015  | 2016-<br>2020 | 2021-<br>2025  | 2026-<br>2030 | 2031-<br>2035 | 2036-<br>2040 | 2041-<br>2045 | 2046-<br>2050 | 2051-<br>2055 | 2056-<br>2060 | 2061-<br>2065 | 2066-<br>2070 |
| PBS Baseline (current<br>year dollars)        | 0                  | 0                  | 0                  | 0     | 0              | 0             | 0              | 0             | 0             | 0             | 0             | 0             | 0             | 0             | 0             | 0             |
| PBS Baseline<br>(constant 1999<br>dollars)    | 0                  | 0                  | 0                  | 0     | 0              | 0             | 0              | 0             | 0             | 0             | 0             | 0             | 0             | 0             | 0             | 0             |
| PBS EM Baseline<br>(current year dollars)     | 0                  | 0                  | 0                  | 0     | 0              | 0             | 0              | 0             | 0             | 0             | 0             | 0             | 0             | 0             | 0             | 0             |
| PBS EM Baseline<br>(constant 1999<br>dollars) | 0                  | 0                  | 0                  | 0     | 0              | 0             | 0              | 0             | 0             | 0             | 0             | 0             | 0             | 0             | 0             | 0             |

## Baseline Escalation Rates

| 1997  | 1998      | 1999      | 2000      | 2001      | 2002      | 2003      | 2004      | 2005      | 2006      | 2007      | 2008      | 2009      |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0.00% | 0.00%     | 0.00%     | 2.70%     | 2.70%     | 2.70%     | 2.70%     | 2.70%     | 2.70%     | 2.70%     | 2.70%     | 2.70%     | 2.70%     |
| 2010  | 2011-2015 | 2016-2020 | 2021-2025 | 2026-2030 | 2031-2035 | 2036-2040 | 2041-2045 | 2046-2050 | 2051-2055 | 2056-2060 | 2061-2065 | 2066-2070 |
| 2.70% | 2.70%     | 2.10%     | 2.10%     | 2.10%     | 2.10%     | 2.10%     | 2.10%     | 2.10%     | 2.10%     | 2.10%     | 2.10%     | 2.10%     |

## Project Reconciliation

Project Completion Date Changes:

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## Project Reconciliation

Previously Projected End Date of Project: 9/30/2005

Current Projected End Date of Project: 9/30/2005

### Explanation of Project Completion Date Difference (if applicable):

The baseline completion date for this PBS remains unchanged. This PBS is expected to be completed in FY2005.

Recent replanning efforts have enabled the WVDP to direct significant resources to the site transitioning and post vitrification effort. The FY2000 Validation of the 1999-2001 WVDP Plan formally reviewed and approved this strategy. With DOE-OH approval, functional costs are no longer required to be reported in PBS-OH-WV-04 Project Management / Site Support, and as a result the PBS structure is more compatible to the Work Breakdown Structure utilized in the Cost Management System and Cost Account Planning Report Systems.

## Project Cost Estimates (in thousands of dollars)

|   |        |  |     |                   |     |
|---|--------|--|-----|-------------------|-----|
| Previously Estimated Lifecycle Cost (1997 - 2070, 1998 Dollars):            | 20,691 | Actual 1997 Cost:  | 709 | Actual 1998 Cost: | 999 |
| Previously Estimated Lifecycle Cost of Project (1999 - 2070, 1998 Dollars): | 18,983 | Inflation Adjustment (2.7% to convert 1998 to 1999 dollars): |     |                   | 513 |
| Previously Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars):            | 19,496 |  |     |                   |     |

## Project Cost Changes

|   | Cost Adjustments | Reconciliation Narratives   |
|---|------------------|---|
| Cost Change Due to Scope Deletions (-):                       |                  |   |
| Cost Reductions Due to Efficiencies (-):                      |                  |   |
| Cost Associated with New Scope (+):                           |                  |   |
| Cost Growth Associated with Scope Previously Reported (+):    |                  |   |
| Cost Reductions Due to Science & Technology Efficiencies (-): |                  |   |
| Subtotal:   | 19,496           |   |
| Additional Amount to Reconcile (+):                           | -1,616           | (\$956k) Uncosteds / (\$642k) BA Reduction / (\$20k) 1997 Actual Cost Escalation to 1998 dollars. |
| Current Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars): | 17,880           |   |

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## Milestones

| Milestone/Activity                              | Field Milestone Code | Original Date | Baseline Date | Legal Date | Forecast Date | Actual Date | EA | DNFSB | Mgmt. Commit. | Key Decision | Intersite |
|---|----------------------|---------------|---------------|------------|---------------|-------------|----|-------|---------------|--------------|-----------|
| Begin to Ship WV-SNF to INEEL                   | 1303                 |               | 4/1/2001      | 4/1/2001   | 4/1/2001      |             | Y  |       |               |              | Y         |
| Complete SNF Transportation Plan                | 1304                 |               | 6/30/1999     |            | 3/31/1999     |             |    |       |               |              |           |
| Preparation/Approvals for SNF Shipments         | 1305                 |               | 3/31/2001     |            | 6/30/2000     |             |    |       |               | Y            | Y         |
| Complete Shipment of WV-SNF to INEEL            | 1306                 |               | 9/30/2001     | 9/30/2001  | 9/30/2001     |             | Y  |       |               |              | Y         |
| Complete D&D of Fuel Receiving and Storage Area | 1307                 |               | 9/30/2005     |            | 9/30/2005     |             |    |       |               |              |           |
| PBS-OH-WV-03; Spent Nuclear Fuel terminated     | 1308                 |               | 9/30/2005     |            | 9/30/2005     |             |    |       |               |              |           |
| WV SNF Equipment/Facilities Prepared            |                      |               | 9/30/1999     |            | 9/30/1999     |             |    |       |               |              |           |
| Begin PBS-OH-WV-03 Format                       | 6688                 |               | 10/1/1997     |            |               |             |    |       |               |              |           |

## Milestones - Part II

| Milestone/Activity                      | Field Milestone Code | Critical Decision | Critical Closure Path | Project Start | Project End | Mission Complete | Tech Risk | Work Scope Risk | Intersite Risk | Cancelled | Milestone Description  |
|---|----------------------|-------------------|-----------------------|---------------|-------------|------------------|-----------|-----------------|----------------|-----------|--|
| Begin to Ship WV-SNF to INEEL           | 1303                 |                   | Y                     |               |             |                  | 1         | 1               | 1              |           | Begin to Ship WV-SNF to INEEL; Initiate West Valley spent fuel (125 assemblies) shipments to Test Area North at INEEL for disposal   |
| Complete SNF Transportation Plan        | 1304                 |                   |                       |               |             |                  |           |                 |                |           | Interim WV site working milestone  |
| Preparation/Approvals for SNF Shipments | 1305                 |                   |                       |               |             |                  |           |                 |                |           | Preparation/Approvals for SNF Shipments: At WV and INEEL sites, activities to assure equipment, procedures, and operator training and preparations required to ship SNF are completed. |
| Complete Shipment of WV-SNF to INEEL    | 1306                 |                   | Y                     |               |             |                  | 1         | 1               | 1              |           | Complete Shipment of WV-SNF to INEEL; Complete West Valley spent fuel (125 assemblies) shipments to Test Area North at INEEL for   |

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## Milestones - Part II

| Milestone/Activity                              | Field Milestone Code | Critical Decision | Critical Closure Path | Project Start | Project End | Mission Complete | Tech Risk | Work Scope Risk | Intersite Risk | Cancelled | Milestone Description  |
|---|----------------------|-------------------|-----------------------|---------------|-------------|------------------|-----------|-----------------|----------------|-----------|--|
| Complete D&D of Fuel Receiving and Storage Area | 1307                 | Y                 |                       |               |             |                  |           |                 |                |           | disposal<br>Complete D&D of Fuel Receiving and Storage Area: WV Fuel Receiving and Storage Area for Spent Nuclear Fuel assemblies is decontaminated according to approved NRC criteria.  |
| PBS-OH-WV-03; Spent Nuclear Fuel terminated     | 1308                 |                   |                       |               | Y           | Y                |           |                 |                |           | PBS-OH-WV-03: Spent Nuclear Fuel, is terminated after decontamination of Fuel Receiving and Storage area.  |
| WV SNF Equipment/Facilities Prepared            |                      |                   |                       |               |             |                  |           |                 |                |           | Interim WV site working milestone  |
| Begin PBS-OH-WV-03 Format                       | 6688                 |                   |                       | Y             |             |                  |           |                 |                |           | Begin PBS-OH-WV-03 Format: WVDP work performed between Oct 1, 1981 and Sept 30,1997, was not performed in PBS format. PBS format initiated by Al Alm Draft Ten Year Plan Guidance 6/10/1996. Therefore, PBS start date is designated as Oct 1, 1997. |

## Performance Measure Metrics

| Category/Subcategory      | Units | 1997-2006 Total | 2007-2070 Total | 1997-2070 Total | Actual Pre-1997 | Planned 1997 | Actual 1997 | Planned 1998 | Planned 1999 | Planned 2000 | Planned 2001 | Planned 2002 | Planned 2003 | Planned 2004 |
|---------------------------|-------|-----------------|-----------------|-----------------|-----------------|--------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| SNF                       |       |                 |                 |                 |                 |              |             |              |              |              |              |              |              |              |
| Shipped for Consolidation | MTHM  | 27.00           | 0.00            | 27.00           | 0.00            |              | 0.00        |              |              |              | 27.00        |              |              |              |

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| Category/Subcategory      | Units | Planned<br>2004           | Planned<br>2005           | Planned<br>2006           | Planned<br>2007           | Planned<br>2008           | Planned<br>2009           | Planned<br>2010           | Planned<br>2011 -<br>2015 | Planned<br>2016 -<br>2020 | Planned<br>2021 -<br>2025 | Planned<br>2026 -<br>2030 | Planned<br>2031 -<br>2035 |
|---------------------------|-------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| SNF                       |       |                           |                           |                           |                           |                           |                           |                           |                           |                           |                           |                           |                           |
| Shipped for Consolidation | MTHM  |                           |                           |                           |                           |                           |                           |                           |                           |                           |                           |                           |                           |
| Category/Subcategory      | Units | Planned<br>2036 -<br>2040 | Planned<br>2041 -<br>2045 | Planned<br>2046 -<br>2050 | Planned<br>2051 -<br>2055 | Planned<br>2056 -<br>2060 | Planned<br>2061 -<br>2065 | Planned<br>2066 -<br>2070 | Exceptions                | Lifecycle<br>Total        |                           |                           |                           |
| SNF                       |       |                           |                           |                           |                           |                           |                           |                           |                           |                           |                           |                           |                           |
| Shipped for Consolidation | MTHM  |                           |                           |                           |                           |                           |                           |                           |                           | 27.00                     |                           |                           |                           |